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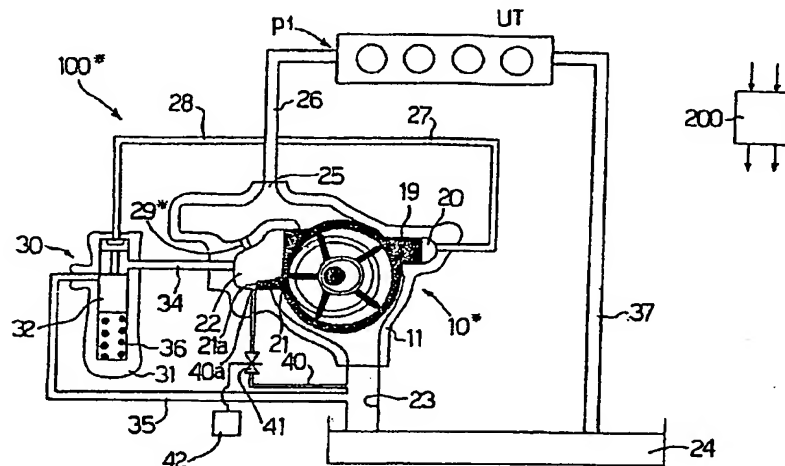
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(54) Title: PUMPING SYSTEM



(57) Abstract: A pumping system (100*) having a pump (10*), such as a variable-displacement vane pump (10*) or a gear pump. The pump (10*) in turn has hydraulic pressure-control dissipating devices (29, 30) for imparting to the oil in a first control chamber (22) a pressure (p2) lower than the pressure of a second chamber (20). The system (100*) is characterized in that the first control chamber (22) of the pump (10*) has a channel (40) connecting the first control chamber to an oil inlet (23). And the channel (40) has an opening/closing device (41) controlled selectively by an engine operating parameter, such as oil temperature.

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INTERNATIONAL SEARCH REPORT

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F04C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	page 2, line 39 - page 4, line 8; figures 1,2	4
X	US 4 510 962 A (MOTT ET AL) 16 April 1985 (1985-04-16)	1-3
	column 2, line 28 - column 3, line 15; figure 1 column 4, line 13 - line 15	
Y	US 5 800 131 A (LEHMANN ET AL) 1 September 1998 (1998-09-01)	4
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A	US 2003/031567 A1 (HUNTER DOUGLAS G ET AL) 13 February 2003 (2003-02-13)	1-4
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Information on patent family members

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